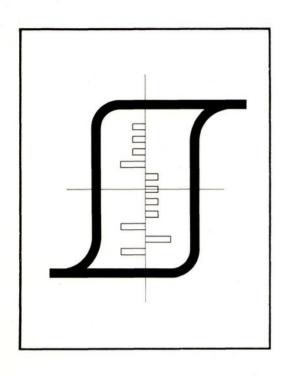


MEMORY PRODUCTS



MEMORY CORE Type FC-5003

The FC-5003 is a 50 mil ferrite memory core which exhibits fast switching speed and very low noise at moderate drive currents. It is recommended for use in memories having cycle times of 6 to 8 microseconds. At a nominal drive current of 550 milliamperes, FC-5003 has a switching time of approximately 0.80 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter 0.050" ± 0.002"	Fracture strength: The core will not fracture when subjected to
Inside Diameter 0.030" ± 0.002"	a compressive force of 200 grams applied between parallel
Thickness 0.012" ± 0.001"	plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C)

Drive Currents			Output Signals		
		0 milliamperes	uV1 dVz		80 millivolts 7 millivolts
		5 milliamperes 2 microseconds			0.41 microseconds
td	= 3.	0 microseconds	ts	=	0.80 microseconds

TEST SPECIFICATION (at 25°C)

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by Mil STD-105D, Inspection Level II.

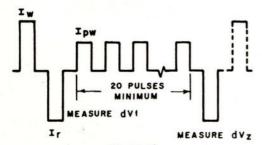


Figure 1.

Test Drive Conditions

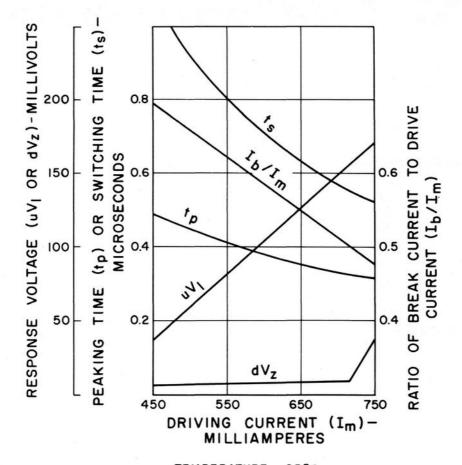
Ir	=	lw	=	500 milliamperes \pm 1%		
lpw	1		=	300 milliamperes \pm 1%		
tr			=	0.2 microseconds		
td			=	3.0 microseconds		

Test Output Signals

uV1 = 60 millivolts minimum. The maximum variation in uV1 within a given lot will be no greater than \pm 12% dVz = 8 millivolts maximum

tp = $0.47 \pm .05$ microseconds

ts = 1.05 microseconds maximum



TEMPERATURE 25°C

Figure 2. TYPICAL OPERATING CHARACTERISTICS

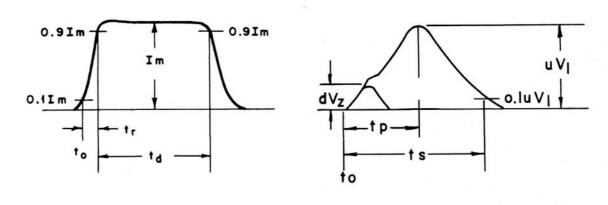


Figure 3. CURRENT PULSE

Figure 4. VOLTAGE RESPONSE

